

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 348 B17
1. (Original) A database querying method, comprising:
- 2 obtaining a first data item from a database table of a database system in response
- 3 to a query request;
- 4 obtaining a second data item based on a value related to said first data item, said
- 5 value in an updated log file of said database system;
- 6 integrating said first and second data items into an integration result; and
- 7 returning said integration result to said query request.
2. (Original) The database querying method of claim 1,
- 2 wherein said second data item is obtained by translating said value according to a
- 3 predetermined translation rule.
3. (Original) A database querying system comprising:
- 2 a database access module for obtaining a first data item from a database table of a
- 3 database system in response to a query request;
- 4 a log extractor module for obtaining a second data item based on a value related
- 5 to said first data item, said value in an updated log file of said database system; and
- 6 an integrator module for integrating said first and second data items into an
- 7 integration result, said integration result related to a response to said query request.
4. (Original) The database querying system of claim 3 further comprising :
- 2 a translator module coupled with said log extractor module and with said
- 3 integrator module for modifying said second data item from said log extractor module according
- 4 to a predetermined translation rule, before said second data item is used by said integrator
- 5 module.

1                   5.     (Original) A database querying system, comprising:  
2                   a database processor for receiving a query request and returning a requested  
3 record set in response to the query request; and  
4                   a database system comprising a database table and an updated log file;  
5                   wherein said database processor is operably disposed to:  
6                   retrieving a first item from said database table responsive to said query request;  
7                   retrieving a second item , comprising updated log data corresponding to said first  
8 item, from said updated log file;  
9                   generating said requested record set, comprising said first item and said second  
10 item; and  
11                  returning said requested record set to a query request origin.

11                  6.     (Original) The database querying system according to claim 5,  
1                   wherein the database processor comprises a translator for translating updated log  
2 data, according to a predetermined translation rule, into translated log data and substituting said  
3 translated log data for said updated log data in said second item.

11                  7.     (Original) A computer program product for use with a database system,  
1 comprising:  
2                   a computer readable medium having program code embodied in said computer  
3 readable medium, said program code comprising:  
4                   program code for obtaining a first data item from a database table of said database  
5 system in response to a query request;  
6                   program code for obtaining a second data item based on a value related to said  
7 first data item, said value in an updated log file of said database system;  
8                   program code for integrating said first and second data items into an integration  
9 result; and  
10                  program code for returning said integration result to said query request.  
11

1           8.     (Original) A database question and answer method using one or more  
2     databases, each database comprising a database table and an updated log file, said updated log  
3     file comprising information associated with said database table, said method comprising:  
4                 receiving a query request from a user, said query request comprising a first data  
5     item of said database table;  
6                 using said first data item, obtaining a second data item from said updated log file;  
7                 modifying said second data item to a third data item using a predetermined  
8     business rule;  
9                 generating a virtual table comprising said first and third data items; and  
10                returning to said user an answer based on said virtual table.

A ( 1           9.     (Original) The database question and answer method of claim 8 wherein  
2     said virtual table is discarded after said answer is returned to said user.

1           10.    (Original) The database question and answer method of claim 8 wherein  
2     said predetermined business rule comprises an accounting time period.

1           11.    (Original) The database question and answer method of claim 10 wherein  
2     the accounting time period is a fixed day in a month.

1           12.    (Original) The database question and answer method of claim 8 wherein  
2     said predetermined business rule comprises a base time period.

1           13.    (Original) The database question and answer method of claim 8 wherein  
2     said predetermined business rule comprises a selected national calendar format for the day,  
3     month, and year.

1           14.    (Original) The database question and answer method of claim 8, wherein  
2     said selected national calendar format is selected from a group consisting of a Japanese Calendar  
3     or a U.S. Calendar.

1           15.   (Original) The database question and answer method of claim 8 wherein  
2 said predetermined business rule comprises a table name.

1           16.   (Original) The database question and answer method of claim 8 further  
2 comprising:  
3           when said query request is for a plurality of databases, dividing said query request  
4 into a plurality of sub-requests, each sub-request directed to a database of said plurality of  
5 databases;  
6           receiving a record set of a plurality of record sets in response to said sub-request;  
7 and  
8           integrating said plurality of record sets into a result for returning to said user.

1           17.   (Original) The database question and answer method of claim 8 wherein  
2 said second data item comprises a timestamp for said first data item.

1           18.   (Original) The database question and answer method of claim 8 wherein  
2 said virtual table is a view table.

1           19.   (Original) The database question and answer method of claim 8 wherein  
2 said request is based on a search of said information in said updated log file.

1           20.   (Original) A system for responding to a user query to a data base  
2 management systems (DBMS), wherein said DBMS comprises a database table and an updated  
3 log file, said system comprising:

4           a database access controller for retrieving a data item from said database table  
5 responsive to said user query;

6           a translation module coupled with said database access controller for retrieving an  
7 attribute related to said data item from said updated log file and for translating said attribute into  
8 a modified attribute according to a translation rule; and

9 an integrator module for integrating said data item and said modified attribute into  
10 a virtual table and returning to said user query an answer based on said virtual table.

1 21. (Original) The system of claim 20 wherein said attribute is a timestamp.

1 22. (Original) The system of claim 20 wherein said translation rule comprises  
2 a base time period.

1 23. (Original) The system of claim 20 wherein said translation rule comprises  
2 a predetermined country's calendar format.

1 24. (Original) A system for responding to a user query to a data base  
2 management systems (DBMS), wherein said DBMS comprises a database table and an updated  
3 log file, said system comprising:

4 an access means for retrieving a data item from said database table responsive to  
5 said user query;

6 an extraction means for retrieving an attribute related to said data item from said  
7 updated log file;

8 a translation means for translating said attribute into a modified attribute  
9 according to a translation rule; and

10 a virtual table comprising said data item and said modified attribute wherein a  
11 response to said user query is based on said virtual table.

1 25. (Original) A computer readable data transmission medium containing a  
2 data structure for responding to a user query, comprising:

3 a first part, comprising a database table entry, responsive to said user query; and

4 a second part, comprising, a timestamp modified by a translation rule, wherein  
5 said timestamp is a time value in an updated log file associated with said database table entry.

1 26. (Original) The computer readable data transmission medium of claim 25  
2 wherein said data structure is a virtual table.

1           27.   (Original) A computer readable medium for storing code for querying a  
2 database querying, comprising:  
3           code for obtaining a first data item from a database table of a database system in  
4 response to a query request;  
5           code for obtaining a second data item based on a value related to said first data  
6 item, said value in an updated log file of said database system;  
7           code for integrating said first and second data items into an integration result; and  
8           code for returning said integration result to said query request.

1           28.   (Original) The computer readable medium of claim 27, further  
2 comprising code for obtaining said second data item by translating said value according to a  
3 predetermined translation rule.

1           29.   (Original) A database querying system comprising:  
2           an access means for obtaining a first data item from a database table of a database  
3 system in response to a query request;  
4           an extractor means for obtaining a second data item based on a value related to  
5 said first data item, said value in an updated log file of said database system; and  
6           an integrator means for integrating said first and second data items into an  
7 integration result, said integration result related to a response to said query request.

1           30.   (Original) The database querying system of claim 29 further comprising :  
2           a translator means for modifying said second data item from said log extractor  
3 module according to a predetermined translation rule, before said second data item is used by  
4 said integrator module.